

## PCT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
 United States Patent and Trademark  
 Office  
 Box PCT  
 Washington, D.C.20231  
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

<b>Date of mailing (day/month/year)</b> 10 October 2000 (10.10.00)	
<b>International application No.</b> PCT/US00/03456	<b>Applicant's or agent's file reference</b> 7440/VB
<b>International filing date (day/month/year)</b> 10 February 2000 (10.02.00)	<b>Priority date (day/month/year)</b> 22 February 1999 (22.02.99)
<b>Applicant</b> JORDAN, Glenn, Thomas, IV et al	

1. The designated Office is hereby notified of its election made:

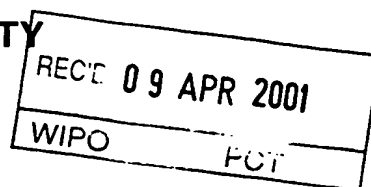
☒ in the demand filed with the International Preliminary Examining Authority on:

17 July 2000 (17.07.00)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b> Zakaria EL KHODARY Telephone No.: (41-22) 338.83.38
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT



(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 7440/VB	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/03456	International filing date (day/month/year) 10/02/2000	Priority date (day/month/year) 22/02/1999
International Patent Classification (IPC) or national classification and IPC C11D1/825		
Applicant THE PROCTER & GAMBLE COMPANY et al.		

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 7 sheets, including this cover sheet.  
  
☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  
  
 These annexes consist of a total of sheets.

## 3. This report contains indications relating to the following items:

- |      |                                     |   |
|------|-------------------------------------|---|
| I    | <input checked="" type="checkbox"/> | Basis of the report   |
| II   | <input type="checkbox"/>            | Priority  |
| III  | <input type="checkbox"/>            | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| IV   | <input type="checkbox"/>            | Lack of unity of invention  |
| V    | <input checked="" type="checkbox"/> | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| VI   | <input type="checkbox"/>            | Certain documents cited   |
| VII  | <input checked="" type="checkbox"/> | Certain defects in the international application  |
| VIII | <input checked="" type="checkbox"/> | Certain observations on the international application   |

Date of submission of the demand  17/07/2000	Date of completion of this report  04.04.2001
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer  Irwin, L  Telephone No. +49 89 2399 2527 

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/03456

## I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, pages:**

1-34 as originally filed

**Claims, No.:**

1-13 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/03456

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Yes:	Claims	3, 9, 10, 12
	No:	Claims	1, 2, 4 - 8, 11, 13
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1 - 13
Industrial applicability (IA)	Yes:	Claims	1 - 13
	No:	Claims	

2. Citations and explanations  
**see separate sheet**

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

## VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:  
**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/US00/03456

**Re Item V**

**Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

The following documents cited are:

D1: WO 99 06466 A (PROCTER & GAMBLE) 11 February 1999 (1999-02-11)

D2: WO 95 05440 A (PROCTER & GAMBLE) 23 February 1995 (1995-02-23)

**Novelty:**

The subject matter of the independent claims 1 and 2 is not novel since all of the features have been previously disclosed in document D1 cited above. Please see: D1: description, page 1, paragraph 2; page 4, paragraph 4 and page 20, paragraph 1; claim 10; page 19, paragraph 3; page 13 for low foaming nonionic surfactants; pages 3 and 4 for the surfactants with X/Y numbers greater than or equal to zero; and page 4, paragraph 4 for the adjunct ingredients. Therefore the document D1 is completely novelty destroying with respect to the features that are covered in the independent claims 1 and 2.

The subject matter of the dependent claims 4, 5, 6, 7, 8, and 11 is also not novel as all of the features disclosed herein are also covered in document D1. Please see page 3, paragraph 2; page 7, paragraph 2; claim 6; pages 24 and 25 for the bleach catalysts; page 15 for the low cloud point nonionic surfactants; and page 18 for the amine oxide (disclosed in claim 11 of the present application).

The subject matter of the claims 3, 9, 10, and 12 is however novel since these features have not been disclosed in the document D1.

The subject matter of the independent claim 13 is not novel since D1 also relates to compositions used for the washing tableware in an automatic dishwashing machine (see claim 12).

Therefore the claims 1, 2, 4 - 8, 11, and 13 are not novel; and the claims 3, 9, 10, and 12 are considered to be novel. *Art. 33(2) PCT.*

**Inv ntiv St p:**

Concerning the presence of an inventive step, the technical problem solved by the present application has been formulated as: "How to provide an automatic dishwashing detergent composition that provides superior spotting reduction benefits without unacceptably high sudsing".

The closest prior art document has been taken to be D1 since this document is also concerned with reducing the amount of sudsing and foam caused by the spray action of the dishwasher, particularly without the use of traditional silicone suds suppressing agents which are not robust enough for use in automatic dishwashing applications, and are expensive, and redeposit on hydrophobic surfaces.

The low foaming nonionic surfactant that is disclosed in the novel claim 3 of the present application is not considered to be an inventive feature since similar structures have been suggested in the closest prior art to achieve the same effects (please see D1, page 13, paragraph 3).

The novel claim 9 is also not considered to be inventive since it appears as if a second suds suppressing agent is being used since the surfactant system itself is intended to be low sudsing and low foaming. Also, suds suppressors are common, well known, commercially available adjunct ingredients that could be used in any reasonable quantity by an expert in the field. In document D2, page 18, lines 1 - 8, the use of low levels of suds suppressors in such low amounts is suggested, and since the compositions of the two documents are very similar, the features disclosed in claim 9 of the present application are not considered to be inventive.

The subject matter of the novel claim 10 is also not inventive since very similar structures have been used in document D2: please see page 3 lines 30+. This would also appear to be an obvious modification to a person skilled in the art in order to arrive at the present invention from the closest prior art.

Finally, the subject matter of the novel claim 12 has not been considered to be inventive since these compounds are extremely similar to those that have been disclosed in the prior art, please see D1: page 7, surfactants, and page 8 paragraph 2; and also in document

D2: page 12, line 36 - page 13, line 30.

These above features could be considered to be inventive if their use exhibits some unexpected improved effect in the decrease of the foaming or improved suds suppression when used in automatic dishwashing machines. As it stands, these novel features do not show any improvement over the prior art.

Therefore the subject matter of claims 1 - 13 is not inventive. *Art. 33(3) PCT.*

**Re Item VII**

**Certain defects in the international application**

Contrary to the requirements of Rule 5.1(a)(ii) of the PCT, the relevant background art disclosed in documents D1 and D2 has not been mentioned in the description, nor are these documents identified therein.

The phrase "... herein incorporated by reference" as used for example in the description on page 3 (line 24), page 9 (line 16), page 18 (lines 3 and 12), and page 25 (line 30), is an expression not to be used since it renders the extent of the protection unclear (Guidelines, PCT/GL/3 III, 4.3a).

**Re Item VIII**

**Certain observations on the international application**

The X and Y ratio that is used to describe the non-ionic surfactants has not been disclosed in the claim itself, although it has been covered in the description. The scope of the claim would be made clearer by incorporating this procedure into the claims themselves, although the information from the description has been used to judge the novelty of these claims.

The second claim is also an independent claim although it could be redrafted to be dependent on the main claim, claim 1.

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/US00/03456

In claim 2, the interfacial tension parameter that has been used is not a term commonly used in the prior art to describe these particular nonionic surfactants and neither is it been further explained in the description. It has not been covered in the prior art search, and so this feature has been examined considering the nonionic surfactant parameters disclosed in claim 1, and the surfactants disclosed in the description.



# PATENT COOPERATION TREATY

**RECEIVED**  
JUN 27 2000

P & G Patent Division  
International ITC

**PCT**

From the INTERNATIONAL SEARCHING AUTHORITY

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION

(PCT Rule 44.1)

To:

The Procter & Gamble Company  
Attn. REED, T.  
5299 Spring Grove Avenue  
CINCINNATI, OHIO 45217-1087  
UNITED STATES OF AMERICA

*Handwritten:* S.D. Robinson, P.C. Brooks, NTC  
cc: Watty, Elatty, J. T. G.

Date of mailing  
(day/month/year) 23/06/2000

Applicant's or agent's file reference

7440/VB

**FOR FURTHER ACTION** See paragraphs 1 and 4 below

International application No.

PCT/US 00/03456

International filing date  
(day/month/year)

10/02/2000

Applicant

THE PROCTER & GAMBLE COMPANY et al.

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 po nl,  
Fax: (+31-70) 340-3016

Authorized officer

Cristina Iacoponi

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

##### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:  
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:  
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:  
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or  
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:  
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

**It must be in the language in which the international application is to be published.**

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>7440/VB</b>	<b>FOR FURTHER ACTION</b> <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/US 00/ 03456</b>	International filing date (day/month/year) <b>10/02/2000</b>	(Earliest) Priority Date (day/month/year) <b>22/02/1999</b>
Applicant  <b>THE PROCTER &amp; GAMBLE COMPANY et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.  
☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of Invention is lacking (see Box II).

**4. With regard to the title,**

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/03456

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D1/825 //C11D1:75,C11D1:755,C11D1:79,C11D1:72,C11D1:722

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 06466 A (PROCTER & GAMBLE) 11 February 1999 (1999-02-11) claims examples 1-7,13	1,2,4, 6-11,13
A	page 4, paragraph 3 page 18, paragraph 1 page 20, paragraph 1 -page 32, last paragraph	3,5,12
X	WO 95 05440 A (PROCTER & GAMBLE) 23 February 1995 (1995-02-23) claims examples page 12, line 26 -page 14, line 31 -/-	1,2,6, 8-11,13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 June 2000

Date of mailing of the international search report

23/06/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Neys, P

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/03456

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 953 382 A (GILBERT ALLAN H ET AL) 27 April 1976 (1976-04-27) claims 1-3,5-7,9 examples VI,XIV ---	1,2,8-11
A	WO 95 05441 A (HENKEL KGAA ) 23 February 1995 (1995-02-23) claims 1-4,7-9 examples page 1, paragraph 2 -page 2, paragraph 2 ---	1-6,8,9
A	GB 1 385 636 A (PROCTER & GAMBLE) 26 February 1975 (1975-02-26) claims 1,7-30 examples I-VII,X,XI,XIII,XIV page 1, line 30 - line 49 ---	1,2,8-11
P,A	US 6 020 296 A (MONDIN MYRIAM ET AL) 1 February 2000 (2000-02-01) claim 1 example 1 column 3, line 20 - line 38 column 9, line 13 - line 34 -----	1-3,8-12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/03456

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9906466	A	11-02-1999	EP	0998514 A	10-05-2000
WO 9505440	A	23-02-1995	AT	168408 T	15-08-1998
			DE	69411746 D	20-08-1998
			DE	69411746 T	18-03-1999
			EP	0713521 A	29-05-1996
US 3953382	A	27-04-1976	NONE		
WO 9505441	A	23-02-1995	DE	4327327 A	16-02-1995
			EP	0724621 A	07-08-1996
GB 1385636	A	26-02-1975	AT	333401 B	25-11-1976
			AT	782273 A	15-03-1976
			AU	477080 B	14-10-1976
			AU	6013673 A	13-03-1975
			BE	804661 A	11-03-1974
			CA	1012866 A	28-06-1977
			CH	619265 A	15-09-1980
			DE	2345115 A	21-03-1974
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International Application No

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(74) Agents: **REED, T., David** et al.: The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).

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**TC 1700**

(54) Title: **AUTOMATIC DISHWASHING COMPOSITIONS COMPRISING MIXED SURFACTANTS SYSTEMS**

(57) Abstract: Automatic dishwashing detergent compositions comprising a mixed surfactant system comprising a low foaming nonionic surfactant with an X/Y number of greater than 1.00 and an oxide surfactant.

**WO 00/50550 A3**

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D1/825 //C11D1:75,C11D1:755,C11D1:79,C11D1:72,C11D1:722

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ Further documents are listed in the continuation of box C.

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